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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/586,160

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Peter Symons

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EXAMINER

HSIEH, PING Y

ART UNIT

PAPER NUMBER

2618

MAIL DATE

DELIVERY MODE

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PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/586,160	Applicant(s) SYMONS ET AL.	
	Examiner PING Y. HSIEH	Art Unit 2618	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 16 May 2007.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 22-43 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 22-43 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 14 July 2006 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date <u>11/15/07</u> . | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claims 22-43 are pending.

Priority

1. Acknowledgment is made of applicant's claim for foreign priority based on an application filed in United Kingdom on 1/14/2004, 2/5/2004, 5/7/2004. It is noted, however, that applicant has not filed a certified copy of the 0400805.8, 0402588.8, 0410242.2 application as required by 35 U.S.C. 119(b).

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claims 22-29, 31-34, 37-39 and 41-43 are rejected under 35 U.S.C. 102(b) as being anticipated by Takeda et al. (U.S. PATNENT NO. 6,792,246).

-Regarding claims 22, 42 and 43, Takeda et al. disclose an apparatus **(element 1, fig. 1)** comprising first **(element 3, fig. 1)** and second **(element 2, fig. 1)** components having respective first **(element 8 on module 3, fig. 4)** and second **(element 8 on the telephone body 2, fig. 4)** mechanical coupling elements that cooperate to allow relative movement of the first and second

components **(as shown in fig. 1: “rotate” and further disclosed in col. 7 lines 32-41)**, wherein each of the first and second mechanical coupling elements provides a corresponding signal coupler and the signal couplers cooperate to enable wireless coupling of a signal from one of the first and second components to the other of the first and second components **(as disclosed in fig. 7A and further disclosed in col. 4 lines 50-67)**.

-Regarding claim 23, Takeda et al. further disclose each signal coupler comprises at least two signal coupling elements with each signal coupling element provided by the first mechanical coupling element forming a signal coupler with a corresponding one of the coupling elements provided by the second mechanical coupling element **(signal noncontact connectors 11-13 as disclosed in fig. 11A & 11B and further disclosed in col. 7 lines 27-67)**.

-Regarding claim 24, Takeda et al. further disclose the signal couplers are incorporated in the mechanical coupling **(as shown in fig. 7A)**.

-Regarding claim 25, Takeda et al. further disclose each signal coupling coupler is carried by or forms part of the corresponding mechanical coupling element **(as shown in fig. 7A)**.

-Regarding claim 26, Takeda et al. further disclose at least one of the first and second components has a data provider to communicate data to the other of the first and second components via the wireless coupling provided by the first and second couplers **(signal noncontact connectors 11-13 as disclosed in fig. 11A & 11B and further disclosed in col. 7 lines 27-67)**.

-Regarding claim 27, Takeda et al. further disclose at least one of the first and second components has a signal supplier coupled to the signal coupler to supply a signal to be coupled to the other of the first and second components via the wireless coupling and at least one of the first and second components is arranged to communicate data to the other by modulating that signal **(as disclosed in fig. 9).**

-Regarding claims 28 and 29, Takeda et al. further disclose at least one of the first and second components has a power deriver operable to derive a power supply for that component from a signal coupled to that component from the other component via the wireless coupling **(rectifying smoothing circuit 31, fig. 9).**

-Regarding claim 31, Takeda et al. further disclose the signal couplers comprise electrical signal couplers providing an inductive wireless coupling **(as disclosed in col. 4 lines 43-47).**

-Regarding claim 32, Takeda et al. further disclose the degree of coupling between the signal couplers varies with the relative positions and/or orientations of the first and second components and a determiner is provided to determine the degree of coupling to determine information relating to the relative positions and/or orientations of the first and second components **(the operation state or contained state can be detected using the received signal through the signal noncontact connectors 11-13 and the signal couplers of the first and**

second components are separated by 90 degrees as disclosed in fig. 11A & 11B and further disclosed in col. 8 lines 1-27).

-Regarding claim 33, Takeda et al. further disclose the first and second mechanical coupling elements define a rotatable coupling **(as shown in fig. 1: “rotate” and further disclosed in col. 7 lines 32-41).**

-Regarding claim 34, Takeda et al. further disclose the first and second mechanical coupling elements provide coaxial parts of a hinge **(as shown in fig. 8).**

-Regarding claim 37, Takeda et al. further disclose the relative positions and/or orientations of the first and second components are fixed once the mechanical coupling is made **(the operation state or contained state as disclosed in fig. 1, 2, 11A & 11B).**

-Regarding claim 38, Takeda et al. further disclose the first and second components are sub-systems or sub-assemblies **(element 2, fig. 1 and element 3, fig. 1 are sub-systems of element 1, fig. 1).**

-Regarding claim 39, Takeda et al. further disclose the second component is a display device **(display 5, fig. 1).**

-Regarding claim 41, Takeda et al. further disclose the apparatus is a portable device **(element 1 is a mobile information terminal as disclosed in col. 4 lines 23-25).**

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

1. Determining the scope and contents of the prior art.
2. Ascertaining the differences between the prior art and the claims at issue.
3. Resolving the level of ordinary skill in the pertinent art.
4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

6. Claims 30, 35, 36 and 40 are rejected under 35 U.S.C. 103(a) as being unpatentable over Takeda et al. (U.S. PATENT NO. 6,792,246).

-Regarding claim 30, Takeda et al. teach all the limitations as claimed in claims 22 and 28. Although Takeda et al. do not specifically disclose a charge storer, the examiner takes official notice that a charge storer was well known in the art and would have been obvious to one of ordinary skill in the art at the time of the invention to implement in mobile device. One is motivated as such in order to provide a back up power source.

-Regarding claims 35 and 36, Takeda et al. teach all the limitations as claimed in claim 22. Although Takeda et al. do not specifically disclose the first

and second mechanical coupling elements define a ball and socket arrangement or provide a sliding mechanical, it is obvious that the selection of different types of mechanical coupling is a design choice and does not have to be identical.

-Regarding claim 40, Takeda et al. teach all the limitations as claimed in claim 22. Although Takeda et al. do not specifically disclose the camera 3 is a video camera, the examiner takes official notice that a video camera was well known in the art and would have been obvious to one of ordinary skill in the art at the time of the invention to implement in mobile device. One is motivated as such in order to capture subjects of interest in motion.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to PING Y. HSIEH whose telephone number is (571)270-3011. The examiner can normally be reached on Monday-Thursday (alternate Fridays) 8:00am-5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Yuwen Pan can be reached on 571-272-7855. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/P. Y. H./
Examiner, Art Unit 2618

/Yuwen Pan/
Primary Examiner, Art Unit 2618